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(74) Agent: GERVASI, Gemma; NOTARBARTOLO & GERVASI S.p.A., Corso di Porta Vittoria 9, I-20122 MILAN (IT).

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(71) Applicant (for all designated States except US): ISTITUTO NAZIONALE PER LE MALATTIE INFETTIVE "LAZZARO SPALLANZANI" IRCCS [IT/IT]; Via Portuense 292, I-00149 ROMA (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): POCCIA, Fabrizio [IT/IT]; Via Maria Grandinetti 52, I-00125 ROMA (IT). GIOIA, Cristiana [IT/IT]; Via Tommaso Arcidiacono 203, I-00143 ROMA (IT). AGRATI, Chiara [IT/IT]; Viale di Vigna Pia 26, I-00149 ROMA (IT). MONTESANO, Carla [IT/IT]; Via della Allodole 12D, I-00169 ROMA (IT). AMICOSANTE, Massimo [IT/IT]; Via Laiatico 24, I-00138 ROMA (IT). CASETTI, Rita [IT/IT]; Via Torino 28A, I-00033 CAVE (IT). D'OFFIZI, Gianpiero [IT/IT]; Via Marcallè 9, I-00199 ROMA (IT). HOREJSH, Douglas [US/IT]; Via del Lavoro 108, I-00043 CIAMPINO (IT). MARTINI, Federico [IT/IT]; Largo Giuseppe La Masa 3, I-00149 ROMA (IT). CAPOBIANCHI, Maria Rosaria [IT/IT]; Via Donna Olimpia 20, I-00152 ROMA (IT). PUCILLO, Leopoldo Paolo [IT/IT]; Via Sirte 25, I-00199 ROMA (IT). PERRONE DONNORSO, Raffaele [IT/IT]; Viale Liegi 14, I-00198 ROMA (IT). IPPOLITO, Giuseppe [IT/IT]; Via Ottavio Ragni 15, I-00194 ROMA (IT).

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(54) Title: METHOD AND DIAGNOSTIC TESTS BASED ON FLOW CYTOMETRIC ANALYSIS OF ANTIGEN-SPECIFIC T LYMPHOCYTES

(57) Abstract: The present invention provides a method for the immuno-diagnosis of diseases with different aetiology (infectious diseases, tumors etc) by measurement of the T cell response J, B and NK lymphocytes) induced by a set of diseasespecific antigens. The method is based on the quantitative determination of antigenspecific T lymphocytes (referred as Ag-Sp), stimulated by using a newly devised pathology-specific antigen or epitope compositions which represent further embodiments of the invention. After stimulation, the selective measurement of the Ag-Sp T lymphocytes is performed by: A) monoclonal antibodies recognizing membrane structures of T lymphocytes and of their sub-populations; B) monoclonal antibodies binding to cytokines accumulating at intracellular level after the stimulation with the antigen; or C) mixtures of A) and B). The flow cytometric detection of the presence of markers of differentiation on T lymphocytes and of intracytoplasmic cytokines allows the acquisition of both qualitative and quantitative results. The invention also provides diagnostic kits for performing the method of the invention.



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